

# Human Genetics

---

## Editorial Board

**J. Lenz**, Münster  
**G. Motulsky**, Seattle  
**Vogel**, Heidelberg  
**Wolf**, Freiburg i. Br.

## Advisory Board

<b>Anders</b> , Groningen	<b>K. Hirschhorn</b> , New York	<b>A. Prader</b> , Zürich
<b>Baitsch</b> , Ulm	<b>W. Jaeger</b> , Heidelberg	<b>H. Ritter</b> , Tübingen
<b>G. Bearn</b> , New York	<b>D. Klein</b> , Genève	<b>C. Ropartz</b> , Bois-Guillaume
<b>Bickel</b> , Heidelberg	<b>E. Krah</b> , Heidelberg	<b>W. Schmid</b> , Zürich
<b>P. Bochkov</b> , Moskau	<b>W. Krone</b> , Ulm	<b>U. W. Schnyder</b> , Heidelberg
<b>Bootsma</b> , Rotterdam	<b>H. Lehmann</b> , Cambridge	<b>W. J. Schull</b> , Ann Arbor
<b>H. Degenhardt</b> , Frankfurt/M.	<b>V. A. McKusick</b> , Baltimore	<b>H. G. Schwarzscher</b> , Wien
<b>Fuhrmann</b> , Giessen	<b>M. Mikkelsen</b> , Glostrup	<b>C. Stern</b> , Berkeley
<b>Grüneberg</b> , London	<b>H. Nachtsheim</b> , Boppard	<b>H. E. Sutton</b> , Austin
<b>Hassenstein</b> , Freiburg i. Br.	<b>E. Passarge</b> , Essen	

Volume 40 · 1977/78



Springer International

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproduction, also in microform, is transferred to the publisher.

The use in this journal of registered or trade names, trademarks etc. without special acknowledgement does not imply that such names, as defined by the relevant protection laws, may be regarded as unprotected and thus free for general use.

Springer-Verlag Berlin · Heidelberg · New York

Printed in Germany by J. P. Peter, Gebr. Holstein, Rothenburg o. d. Tbr.

© by Springer-Verlag Berlin · Heidelberg 1977/78

# Contents

Agarwal, D. P., s. Harada, S., et al. . . . .	215
Aldenhoff, P., s. Waldenmaier, C., et al. . . . .	345
Ananthakrishnan, R., D'Souza, S.: Effect of Phospholipases on Factor-VIII Activity (Orig. Invest.) . . . . .	185
Archidiacono, N., Rogchi, M., de Vonderweid, U., Filippi, G.: t(9/22) With Centric Fission and NOR Translocation Leading to a Case of Pure 9p Trisomy in the Offspring (Clinical Case Report) . . . . .	325
Baker, C. G., s. Hunter, A. G. W., et al. . . . .	311
Baranovskaya, L. I., s. Mirzayants, G. G. . . . .	249
Basler, A., Brucklacher, M., Nobis, F., Röhrborn, G.: Comparative Investigations With Trypaflavin in Metaphase-II Oocytes and in Dominant Lethal Assay (Orig. Invest.) . . . . .	87
Bauknecht, Th., s. Vogel, W. . . . .	193
Benabadji, M., Merad, F., Benmoussa, M., Trabuchet, G., Junien, C., Dreyfus, J. C., Kaplan, J. C.: Heterogeneity of Glucose-6-Phosphate Dehydrogenase Deficiency in Algeria. Study in Northern Algeria With Description of Five New Variants (Orig. Invest.) . . . . .	177
Benmoussa, M., s. Benabadji, M., et al. . . . .	177
Bijlsma, J. B., de France, H. F., Bleeker-Wagemakers, L. M., Dijkstra, P. F.: Double Translocation t(7;12),t(2;6) Heterozygosity in One Family. A Contribution to the Trisomy 12p Syndrome (Orig. Invest.) . . . . .	135
Bleeker-Wagemakers, L. M., s. Bijlsma, J. B., et al. . . . .	135
Bochkov, N. P., s. Hook, E. B. . . . .	235
Borgaonkar, D. S.: Y to X Chromosome Translocations (Letters to the Editors) . . . . .	113
Bornstein, P., s. Byers, P. H., et al. . . . .	157
Brucklacher, M., s. Basler, A., et al. . . . .	87
Buc, H.-A., s. Kahn, A., et al. . . . .	293
Buselmaier, W., Geiger, S., Reichert, W.: Monogene Inheritance of Learning Speed in DBA and C3H Mice. A Behavioral Genetic Study in the Shuttle-Box (Short Comm.) . . . . .	209
Byers, P. H., Holbrook, K. A., Hall, J. G., Bornstein, P., Chandler, J. W.: A New Variety of Spondyloepiphyseal Dysplasia Characterized by Punctate Corneal Dystrophy and Abnormal Dermal Collagen Fibrils (Orig. Invest.) . . . . .	157
Cantú, J. M., Ruenes, R., Garcia-Cruz, D.: Autosomal Recessive Sensorineural-Conductive Deafness, Mental Retardation, and Pinna Anomalies (Clinical Case Report) . . . . .	231
Chandler, J. W., s. Byers, P. H., et al. . . . .	157
Cottreau, D., s. Kahn, A., et al. . . . .	293
Crist, M., s. Sparkes, M. C., et al. . . . .	93
Dijkstra, P. F., s. Bijlsma, J. B., et al. . . . .	135
Dosik, H., s. Rubenstein, C. T., et al. . . . .	279
Dreyfus, J. C., s. Benabadji, M., et al. . . . .	177
D'Souza, S., s. Ananthakrishnan, R. . . . .	185
Ducore, J. M., s. Morse, H. G., et al. . . . .	269
Eygen, M. van, s. Fryns, J. P., et al. . . . .	333
Ezrin, C., s. Taylor, M. C., et al. . . . .	227
Filippi, G., s. Archidiacono, N., et al. . . . .	325
France, H. F. de, s. Bijlsma, J. B., et al. . . . .	135
Fryns, J. P., van Eygen, M., Logghe, N., Van den Berghe, H.: Partial Trisomy for the Long Arm of Chromosome 3 [3(q21→qter)+] in a Newborn With Minor Physical Stigmata (Clinical Case Report) . . . . .	333
Fujimoto, A., Towner, J. W., Turkel, S. B., Wilson, M. G.: A Fetus With Recombinant of Chromosome 8 Inherited From her Carrier Father (Orig. Invest.) . . . . .	241

Galjaard, H., s. Van der Veer, E., et al. . . . .	285
Garcia-Cruz, D., s. Cantú, J. M., et al. . . . .	231
Gardner, H. A., s. Taylor, M. C., et al. . . . .	227
Geiger, S., s. Buselmaier, W., et al. . . . .	209
Giro, R., s. Kahn, A., et al. . . . .	293
Goedde, H. W., s. Harada, S., et al. . . . .	215
Goyanes, V. J.: Differential Silver Carbonate Staining of Sister Chromatids in BrdU-Substituted Chromosomes (Short Comm.) . . . . .	205
Griscelli, C., s. Kahn, A., et al. . . . .	293
Hall, J. G., s. Byers, P. H., et al. . . . .	157
Harada, S., Agarwal, D. P., Goedde, H. W.: Human Liver Alcohol Dehydrogenase Isoenzyme Variations. Improved Separation Methods Using Prolonged High Voltage Starch-Gel Electrophoresis and Isoelectric Focusing (Short Comm.) . . . . .	215
Hays, T., s. Morse, H. G., et al. . . . .	269
Herschel, M.: Dyslexia Revisited. A Review (Review Article) . . . . .	115
Higurashi, M., s. Nakagome, Y., et al. . . . .	171
Holbrook, K. A., s. Byers, P. H., et al. . . . .	157
Hook, E. B.: Models and Assumptions in Calculating the Probabilities of Detecting Chromosomal Mosaicism. A Comment to the Paper: Population Cytogenetic Investigation of Newborns in Moscow. By N. P. Bochkov, N. P. Kuleshov, A. N. Chebotarev, V. I. Alekhin, and S. A. Midian. Humangenetik 22, 139—152 (1974) and Reply of N. P. Bochkov and N. P. Kuleshov (Letters to the Editors) . . . . .	235
Hunter, A. G. W., Martsof, J. T., Baker, C. G.: Geroderma Osteodysplastica. A Report of Two Affected Families (Orig. Invest.) . . . . .	311
Josselin de Jong, J. E. de, s. Van der Veer, E., et al. . . . .	285
Junien, C., s. Benabadji, M., et al. . . . .	177
Kahn, A., Buc, H.-A., Giro, R., Cottreau, D., Griscelli, C.: Molecular and Functional Anomalies in Two New Mutant Glucose-Phosphate-Isomerase Variants With Enzyme Deficiency and Chronic Hemolysis (Orig. Invest.) . . . . .	293
Kajii, T., s. Niikawa, N., et al. . . . .	73
Kajii, T., s. Ohama, K., et al. . . . .	221
Kaplan, J. C., s. Benabadji, M., et al. . . . .	177
Kikuchi, Y., s. Matsunaga, E., et al. . . . .	259
Kleczkowska, A., s. Kubiś, E. . . . .	341
Kleijer, W. J., s. Van der Veer, E., et al. . . . .	285
Klemm, T., s. Waldenmaier, C., et al. . . . .	345
Kubiś, E., Kleczkowska, A.: Familial Translocation t(1p—;21q+) Associated With Down's Syndrome (Clinical Case Report) . . . . .	341
Kuleshov, N. P., s. Hook, E. B. . . . .	235
Kusumi, I., s. Ohama, K., et al. . . . .	221
Kühnl, P., Langanke, U., Spielmann, W., Neubauer, M.: Investigations on the Polymorphism of Sperm Diaphorase in Man. Evidence for a Third Common Allele, SD <sup>3</sup> (Orig. Invest.) . . . . .	79
Langanke, U., s. Kühnl, P., et al. . . . .	79
Logghe, N., s. Fryns, J. P., et al. . . . .	333
Martsof, J. T., s. Hunter, A. G. W., et al. . . . .	311
Matsunaga, E., Tonomura, A., Oishi, H., Kikuchi, Y.: Reexamination of Paternal Age Effect in Down's Syndrome (Orig. Invest.) . . . . .	259
McGregor, I. A., s. Welch, S. G., et al. . . . .	305
Merad, F., s. Benabadji, M., et al. . . . .	177
Merotto, E., s. Niikawa, N., et al. . . . .	73
Mirzayants, G. G., Baranovskaya, L. I.: X-X Translocation in a Patient With Gonadal Dysgenesis and the Problem of Phenotype-Karyotype Correlations (Orig. Invest.) . . . . .	249
Morse, H. G., Ducore, J. M., Hays, T., Peakman, D., Robinson, A.: Multiple Leukemic Clones in Acute Leukemia of Childhood (Orig. Invest.) . . . . .	269

Nakagome, Y., Oka, S., Higurashi, M.: Quinacrine and Acridine-R Banding Without a Fluorescence Microscope (Orig. Invest.) . . . . . 171

Neubauer, M., s. Kühnl, P., et al. . . . . 79

Niikawa, N., Merotto, E., Kajii, T.: Origin of Acrocentric Trisomies in Spontaneous Abortuses (Orig. Invest.) . . . . . 73

Nobis, F., s. Basler, A., et al. . . . . 87

Ohama, K., Kusumi, I., Takahara, H., Kajii, T.: Successive Spontaneous Abortions Including One With Whole-Arm Translocation Between Chromosomes 2 (Clinical Case Report) . . . . . 221

Oishi, H., s. Matsunaga, E., et al. . . . . 259

Oka, S., s. Nakagome, Y., et al. . . . . 171

Pawlak, A. L., Rożynkowa, D.: Parallel Occurence of Oxidant-Sensitivity and Decreased Inhibition by NADPH in G-6-PD Lublin and G-6-PD Poznań (Short Comm.) . . . 107

Peakman, D., s. Morse, H. G., et al. . . . . 269

Puel, V., s. Vogel, W., et al. . . . . 199

Reichert, W., s. Buselmaier, W., et al. . . . . 209

Robinson, A., s. Morse, H. G., et al. . . . . 269

Rocchi, M., s. Archidiacono, N., et al. . . . . 325

Roychoudhury, A. K.: Gene Diversity in Indian Populations (Orig. Invest.) . . . . 99

Rożynkowa, D., s. Pawlak, A. L. . . . . 107

Röhrborn, G., s. Basler, A., et al. . . . . 87

Rubenstein, C. T., Verma, R. S., Dosik, H.: Centromeric Banding (C) of Sequentially Q- and R-Banded Human Chromosomes (Orig. Invest.) . . . . . 279

Ruenes, R., s. Cantú, J. M., et al. . . . . 231

Schempp, W., s. Vogel, W., et al. . . . . 199

Sparkes, M. C., Crist, M., Sparkes, R. S.: Improved Technique for Electrophoresis of Human Galactose-1-P Uridyl Transferase (EC 2.7.7.12) (Orig. Invest.) . . . . . 93

Sparkes, R. S., s. Sparkes, M. C., et al. . . . . 93

Spielmann, W., s. Kühnl, P., et al. . . . . 79

Takahara, H., s. Ohama, K., et al. . . . . 221

Taylor, M. C., Gardner, H. A., Ezrin, C.: Isochromosome for the Long Arm of the Y in an Infertile Male (Clinical Case Report) . . . . . 227

Tomomura, A., s. Matsunaga, E., et al. . . . . 259

Towner, J. W., s. Fujimoto, A., et al. . . . . 241

Trabuchet, G., s. Benabadji, M., et al. . . . . 177

Turkel, S. B., s. Fujimoto, A., et al. . . . . 241

Van den Bergh, H., s. Frys, J. P., et al. . . . . 333

Van der Veer, E., Kleijer, W. J., de Josselin de Jong, J. E., Galjaard, H.: Lysosomal Enzyme Activities in Different Types of Amniotic Fluid Cells Measured by Microchemical Methods, Combined With Interference Microscopy (Orig. Invest.) . . . . 285

Verma, R. S., s. Rubenstein, C. T., et al. . . . . 279

Vogel, W., Bauknecht, Th.: Effects of Caffeine on Sister Chromatid Exchange (SCE) After Exposure to UV Light or Triaziquone Studied With a Fluorescence Plus Giemsa (FPG) Technique (Orig. Invest.) . . . . . 193

Vogel, W., Schempp, W., Puel, V.: Silver-Staining Specificity in Metaphases After Incorporation of 5-Bromodeoxyuridine (BUDR) (Orig. Invest.) . . . . . 199

Vonderweid, U. de, s. Archidiacono, N., et al. . . . . 325

Vosberg, H.-P.: Molecular Cloning of DNA. An Introduction Into Techniques and Problems (Review Article) . . . . . 1

Waldenmaier, C., Aldenhoff, P., Klemm, T.: The Roberts' Syndrome (Clinical Case Report) . . . . . 345

Welch, S. G., McGregor, I. A., Williams, K.: A New Variant of Human Erythrocyte G6PD Occurring at a High Frequency Amongst the Population of Two Villages in The Gambia, West Africa (Orig. Invest.) . . . . . 305

Williams, K., s. Welch, S. G., et al. . . . . 305

Wilson, M. G., s. Fujimoto, A., et al. . . . .	241
Zang, K. D., s. Zankl, H. . . . .	149
Zankl, H., Zang, K. D.: Quantitative Studies on the Arrangement of Human Metaphase Chromosomes. V. The Association Pattern of Acrocentric Chromosomes in Human Meningiomas After the Loss of G and D Chromosomes (Orig. Invest.) . . . . .	149

Announcement

Indexed in Current Contents